	(Original Signature of Member)
117TH CONGRESS 1ST SESSION H. F	?.
	revitalize existing university infrastructed and engineering and establish new universities, and for other purious facilities, and for other purious facilities.

Mr. Gonzalez of Ohio introduced the following bill; which was referred to the Committee on _____

A BILL

To require the Secretary of Energy to revitalize existing university infrastructure relating to nuclear science and engineering and establish new university-based nuclear science and engineering facilities, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "National Nuclear Uni-
- 5 versity Research Infrastructure Reinvestment Act of
- 6 2021".

1 SEC. 2. PURPOSES.

2	The purposes of this Act are—
3	(1) to upgrade the nuclear research capabilities
4	of universities in the United States to meet the re-
5	search requirements of advanced nuclear energy sys-
6	tems;
7	(2) to ensure the continued operation of univer-
8	sity research reactors;
9	(3) to coordinate available resources to enable
10	the establishment, including the start and efficient
11	completion of construction, of new nuclear science
12	and engineering facilities; and
13	(4) to support—
14	(A) workforce development critical to
15	maintaining United States leadership in nuclear
16	science and engineering and related disciplines;
17	and
18	(B) the establishment or enhancement of
19	nuclear science and engineering capabilities and
20	other, related capabilities at historically Black
21	colleges and universities, Tribal colleges or uni-
22	versities, minority-serving institutions, EPSCoR
23	universities, junior or community colleges, and
24	associate-degree-granting colleges.

1	SEC. 3. UNIVERSITY INFRASTRUCTURE COLLABORATION.
2	Section 954(a) of the Energy Policy Act of 2005 (42
3	U.S.C. 16274(a)) is amended—
4	(1) in paragraph (2), by amending subpara-
5	graph (D) to read as follows:
6	"(D) promote collaborations, partnerships,
7	and knowledge sharing between institutions of
8	higher education, National Laboratories, indus-
9	try, and associated labor unions; and"; and
10	(2) by amending paragraph (4) to read as fol-
11	lows:
12	"(4) Strengthening university research
13	AND TRAINING REACTORS AND ASSOCIATED INFRA-
14	STRUCTURE.—
15	"(A) In General.—In carrying out the
16	program under this subsection, the Secretary
17	may support—
18	"(i) converting research reactors from
19	high-enrichment fuels to low-enrichment
20	fuels and upgrading operational instrumen-
21	tation;
22	"(ii) revitalizing and upgrading exist-
23	ing nuclear science and engineering infra-
24	structure that support the development of
25	advanced nuclear technologies and applica-
26	tions;

1	"(iii) regional or subregional univer-
2	sity-led consortia to—
3	"(I) broaden access to university
4	research reactors;
5	"(II) enhance existing university-
6	based nuclear science and engineering
7	infrastructure; and
8	"(III) provide project manage-
9	ment, technical support, quality engi-
10	neering and inspections, manufac-
11	turing, and nuclear material support;
12	"(iv) student training programs, in
13	collaboration with the United States nu-
14	clear industry, in relicensing and upgrad-
15	ing reactors, including through the provi-
16	sion of technical assistance; and
17	"(v) reactor improvements that em-
18	phasize research, training, and education,
19	including through the Innovations in Nu-
20	clear Infrastructure and Education Pro-
21	gram or any similar program.
22	"(B) Authorization of Appropria-
23	TIONS.—Of any amounts appropriated to carry
24	out the program under this subsection, there is
25	authorized to be appropriated to the Secretary

1	to carry out clauses (ii) and (iii) of subpara-
2	graph (A) \$55,000,000 for each of fiscal years
3	2022 through 2026.".
4	SEC. 4. ADVANCED NUCLEAR RESEARCH INFRASTRUCTURE
5	ENHANCEMENT SUBPROGRAM.
6	Section 954(a) of the Energy Policy Act of 2005 (42
7	U.S.C. 16274(a)), as amended by section 3, is further
8	amended—
9	(1) by redesignating paragraphs (5) through
10	(8) as paragraphs (6) through (9), respectively;
11	(2) by inserting after paragraph (4) the fol-
12	lowing:
13	"(5) ADVANCED NUCLEAR RESEARCH INFRA-
14	STRUCTURE ENHANCEMENT.—
15	"(A) IN GENERAL.—The Secretary shall
16	carry out a subprogram to be known as the Ad-
17	vanced Nuclear Research Infrastructure En-
18	hancement Subprogram in order to—
19	"(i) demonstrate various advanced nu-
20	clear reactor and nuclear microreactor con-
21	cepts;
22	"(ii) establish medical isotope produc-
23	tion reactors or other specialized applica-
24	tions; and

1	"(iii) advance other research infra-
2	structure that, in the determination of the
3	Secretary, is consistent with the mission of
4	the Department.
5	"(B) NEW NUCLEAR SCIENCE AND ENGI-
6	NEERING FACILITIES.—In carrying out the sub-
7	program, the Secretary shall establish—
8	"(i) not more than 4 new research re-
9	actors; and
10	"(ii) new nuclear science and engi-
11	neering facilities, as required to address re-
12	search demand and identified infrastruc-
13	ture gaps.
14	"(C) Locations.—New research reactors
15	and facilities established under subparagraph
16	(B) shall be established in a manner that—
17	"(i) supports the regional or sub-
18	regional consortia described in paragraph
19	(4)(C); and
20	"(ii) encourages the participation of—
21	"(I) historically Black colleges
22	and universities;
23	"(II) Tribal colleges or univer-
24	sities;

1	"(III) minority-serving institu-
2	tions;
3	"(IV) EPSCoR universities;
4	"(V) junior or community col-
5	leges; and
6	"(VI) associate-degree-granting
7	colleges.
8	"(D) AUTHORIZATION OF APPROPRIA-
9	TIONS.—Of any amounts appropriated to carry
10	out the program under this subsection, there
11	are authorized to be appropriated to the Sec-
12	retary to carry out the subprogram under this
13	paragraph—
14	"(i) \$10,000,000 for fiscal year 2022;
15	"(ii) \$45,000,000 for fiscal year 2023;
16	"(iii) \$60,000,000 for fiscal year
17	2024;
18	(iv) \$65,000,000 for fiscal year
19	2025;
20	"(v) \$80,000,000 for fiscal year 2026;
21	"(vi) \$140,000,000 for fiscal year
22	2027;
23	"(vii) \$120,000,000 for fiscal year
24	2028; and

1	"(viii) \$80,000,000 for fiscal year
2	2029."; and
3	(3) by amending paragraph (9), as redesignated
4	by paragraph (1) of this subsection, to read as fol-
5	lows:
6	"(9) Definitions.—In this subsection:
7	"(A) Associate-degree-granting col-
8	LEGE.—The term 'associate-degree- granting
9	college' means an institution of higher edu-
10	cation (as determined under section 101 of the
11	Higher Education Act of 1965 (20 U.S.C.
12	1001)) that—
13	"(i) is a nonprofit institution that of-
14	fers a 2-year associate-degree program or a
15	2-year certificate program; or
16	"(ii) is a proprietary institution that
17	offers a 2-year associate degree program.
18	"(B) JUNIOR FACULTY.—The term 'junior
19	faculty' means a faculty member who was
20	awarded a doctorate less than 10 years before
21	receipt of an award from the grant program de-
22	scribed in paragraph (2)(B).
23	"(C) Junior or community college.—
24	The term 'junior or community college' has the
25	meaning given the term in section 312 of the

1	Higher Education Act of 1965 (20 U.S.C.
2	1058).
3	"(D) EPSCoR UNIVERSITY.—The term
4	'EPSCoR university' means an institution of
5	higher education located in a State eligible to
6	participate in the program defined in section
7	502 of the America COMPETES Reauthoriza-
8	tion Act of 2010 (42 U.S.C. 1862p note).
9	"(E) HISTORICALLY BLACK COLLEGE OR
10	UNIVERSITY.—The term 'historically Black col-
11	lege or university' has the meaning given the
12	term 'part B institution' in section 322 of the
13	Higher Education Act of 1965 (20 U.S.C.
14	1061).
15	"(F) MINORITY-SERVING INSTITUTION.—
16	The term 'minority-serving institution' means a
17	Hispanic-serving institution, an Alaska Native-
18	serving institution, a Native Hawaiian-serving
19	institutions, a Predominantly Black Institution,
20	an Asian American and Native American Pa-
21	cific Islander-serving institution, or a Native
22	American-serving nontribal institution as de-
23	scribed in section 371 of the Higher Education
24	Act of 1965 (20 U.S.C. 1067q(a)).

1	"(G) Tribal college or university.—
2	The term 'Tribal college or university' has the
3	meaning given such term in section 316 of the
4	Higher Education Act of 1965 (20 U.S.C.
5	1059c).".